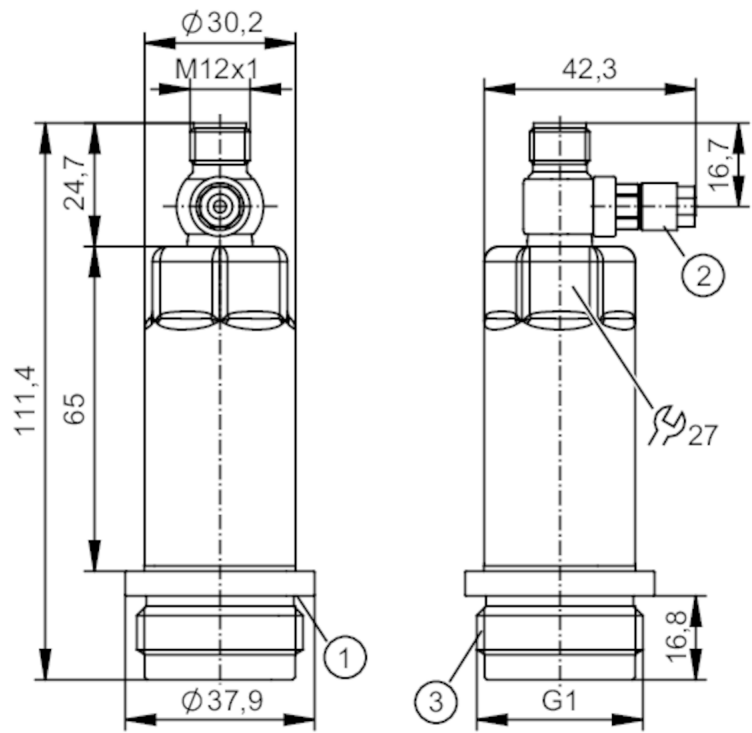


PY1708



Flush pressure transmitter

PM-,25BREA01-E-ZVG/US



- 1 groove with sealing ring (DIN EN ISO 1179-2)
- 2 fitting for tube Ø 6 x 4
- 3 external thread G1



Product characteristics				
Number of inputs and outputs	Number of analog outputs: 1			
Measuring range	-0.0125...0.25 bar	-12.5...250 mbar	-0.182...3.626 psi	-1.25...25 kPa
Process connection	threaded connection G 1 external thread			
Application				
Special feature	gold-plated contacts			
Measuring element	ceramic-capacitive pressure measuring cell			
Application	Industrial flush pressure transmitters, analog PL			
Media	liquids and gases			
Medium temperature [°C]	-25...80			
Min. burst pressure	30000 mbar	435 psi	3000 kPa	
Pressure rating	6000 mbar	87 psi	600 kPa	
Vacuum resistance	-1000 mbar		-0.1 MPa	
Type of pressure	relative pressure			
Electrical data				
Operating voltage [V]	18...30 DC			
Min. insulation resistance [MΩ]	100; (500 V DC)			
Protection class	III			
Reverse polarity protection	yes			



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Integrated watchdog	yes			
2-wire				
Current consumption	[mA]	3.5...21.5		
Power-on delay time	[s]	1		
3-wire				
Current consumption	[mA]	< 45		
Power-on delay time	[s]	0.5		
Inputs / outputs				
Number of inputs and outputs	Number of analog outputs: 1			
Outputs				
Total number of outputs	1			
Output signal	analog signal			
Number of analog outputs	1			
Analog current output	[mA]	4...20; (scalable)		
Max. load	[Ω]	700; (Ub = 24 V; (Ub - 9 V) / 21.5 mA)		
Short-circuit proof	yes			
Overload protection	yes			
Measuring/setting range				
Measuring range	-0.0125...0.25 bar	-12.5...250 mbar	-0.182...3.626 psi	-1.25...25 kPa
Analog start point	-12.5...200 mbar	-0.182...2.9 psi	-1.25...20 kPa	
Analog end point	37.5...250 mbar	0.544...3.626 psi	3.75...25 kPa	
In steps of	0.5 mbar	0.007 psi	0.05 kPa	
Factory setting	ASP = 0.0 mbar	AEP = 250 mbar		
Accuracy / deviations				
Repeatability	[% of the span]	< ± 0,1; (with temperature fluctuations < 10 K; Turn down 1:1)		
Characteristics deviation	[% of the span]	< ± 0,6; (linearity incl. hysteresis and repeatability, limit value setting to DIN EN IEC 62828-1)		
Linearity deviation	[% of the span]	< ± 0,5; (Turn down 1:1)		
Hysteresis deviation	[% of the span]	< ± 0,1; (Turn down 1:1)		
Long-term stability	[% of the span]	< ± 0,1; (Turn down 1:1; per year)		
Temperature coefficient zero point	[% of the span / 10 K]	< ± 0,1; (0...70 °C)		
Temperature coefficient span	[% of the span / 10 K]	< ± 0,4; (0...70 °C)		
Reaction times				
Damping for the analog output dAA	[s]	0...4		
2-wire				
Step response time analog output	[ms]	30		

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3-wire

Step response time analog output	[ms]	7
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Operating conditions

Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67; IP 68; IP 69K

Tests / approvals

EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF	[years]	323

Mechanical data

Weight	[g]	279.4
Housing		tubular
Dimensions	[mm]	Ø 30.2 / L = 111.4
Material		stainless steel (1.4404 / 316L); PBT; FKM; PTFE; nickel-plated brass
Materials (wetted parts)		ceramics (96 % Al ₂ O ₃); FKM; stainless steel (1.4404 / 316L)
Min. pressure cycles		100 million
Tightening torque	[Nm]	35; (recommended tightening torque; Depends on lubrication, seal and pressure rating)
Process connection		threaded connection G 1 external thread

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated

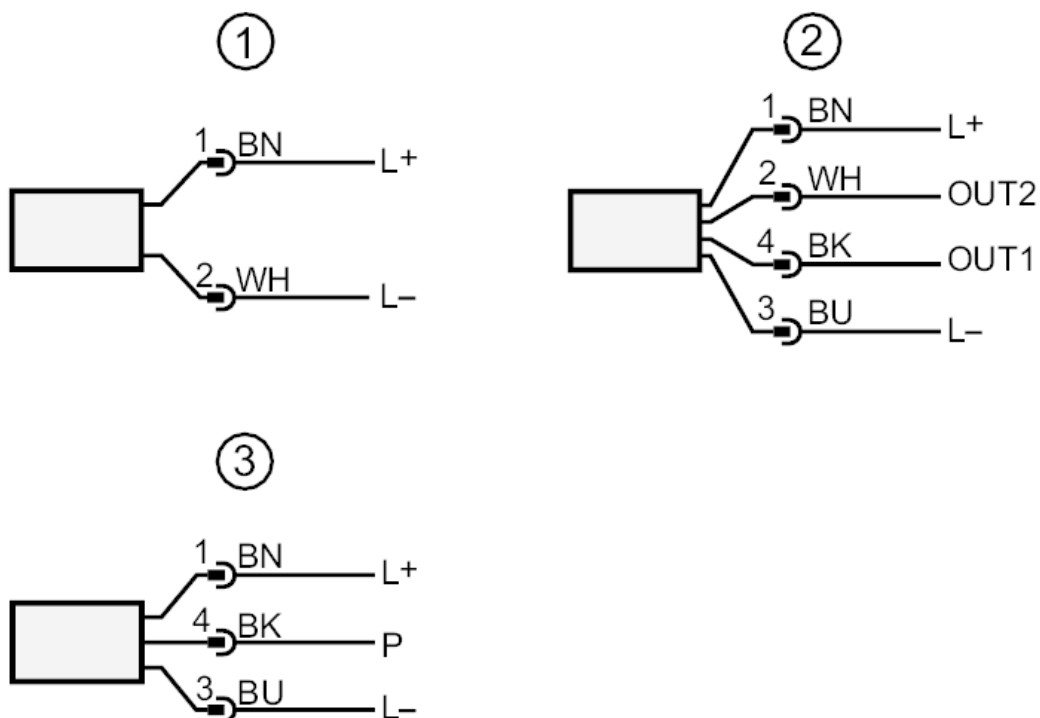




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Connection



- Colors to DIN EN 60947-5-2
- 1 connection for 2-wire operation
- 2 connection for 3-wire operation
- 3 connection for IO-Link parameter setting (P = communication via IO-Link)
- Core colors :
- BK = black
- BN = brown
- BU = blue
- WH = white